

Please Note: Accuracy Counts!

Name: _____ Date: _____ Algebra 1B Pd: _____

Weekend Word Problem #8: Polyjuice Potion

The Situation: Hermione and Ron are in Potions class, brewing Polyjuice. Hermione has 52 liters of 35% Polyjuice and Ron has 43 liters of 60% Polyjuice. They want 40 liters of a 50% Polyjuice potion. How many liters of Hermione's potion should they use? How many liters of Ron's?

a. Predict: Whose Polyjuice will they need more of?

b. Define variables that make sense for the situation.

c. Write a system of equations for the situation.

d. Solve the system using substitution or elimination.

Check on the other side!!!

e. Check via substitution AND reality. (Use your prediction.)

f. Write your answer in a complete sentence.

6. Which method did you choose to solve the system, substitution or elimination? Why did you choose this method? Be specific, write at least TWO complete sentences and use at least TWO algebraic terms.
